	A / A	Trors Corrected	a by the STIC	System Sprain	cessing Date:	7/2/90
lumber:	08/862,6			Edited b	y:	i'
Changed	a file from non-A	SCII to ASCII		Verified I	by://\	(STIC
Changed	the margins in c	ases where the sec	quence text was "v	vrapped down/to	the next line	. 18
Edited a f	format error in the	e Current Application	on Data section, sp	pecifically:	ERE	
Edited the applicant	e Current Applica was  the prio	tion Data section w r application data;	vith the actual currence or other	ent number	e number inp	utted by the
Added the	e mandatory hea	ding and subheadir	ngs for "Current Ap	oplication Data".	OCT !	0 1007
Edited the	Number of Sec	quences" field. The	applicant spelled	out a number in	stead of using	ردر، an integer عَرِيْنَ
Changed	the spelling of a	mandatory field (the	e headings or subl	headings), speci	fically:	
Corrected	the SEQ ID NO	when obviously inc	correct. The seque	ence numbers th	at were edite	d were:
Inserted o	r corrected a nuc	cleic number at the	end of a nucleic li	ne. SEQ ID NO	's edited:	
	• •	ement. All response below the subhea				ng. If the
Inserted o	colons after head	ings/subheadings.	Headings edited i	ncluded:		
Deleted e	xtra, invalid, hea	dings used by an a	pplicant, specifica	lly:		
		arbage" at the beg			nitials/filenan	e at end of
Inserted	mandatory headi	ngs, specifically:				
Corrected	d an obvious erro	or in the response,	specifically:		•	
Edited ide	entifiers where up	oper case is used b	out lower case is re	equired, or vice v	ersa.	
Corrected	d an error in the f	Number of Sequenc	es field, specifical	lly:		
A "Hard F	Page Break" code	was inserted by the	ne applicant. All o	ccurrences had t	o be deleted.	
		n in amino acid seq quences corrected:				rdingly (erre
Other: /		M (A) LENGTH				
// //						

Fram 8

\*Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.

3/1/95

#### RAW SEOUENCE LISTING PATENT APPLICATION US/08/862,610

DATE: 07/30/97 TIME: 13:59:47

```
This Raw Listing contains the General Information Section and up to the first 5 pages.

SEQUENCE LISTING

Per, David H. Lloyd

The Sequencing OCT
 1
 2
     (1)
 3
             General Information:
 4
     (i) APPLICANT: Glenn Albrecht, Sydney Brenner, David H. Lloyd
 5
 6
 7
     (ii) TITLE OF INVENTION: Massively Parallel Signature Sequencing
 8
        by Ligation of Encoded Adaptors
 9
     (iii) NUMBER OF SEQUENCES:
10
11
12
     (iv) CORRESPONDENCE ADDRESS:
13
     (A) ADDRESSEE: Stephen C. Macevicz, Lynx Therapeutics, Inc.
     (B) STREET: 3832 Bay Center Place
14
15
     (C) CITY: Hayward
     (D) STATE: California
16
17
     (E) COUNTRY: USA
18
     (F) ZIP: 94545
19
20
     (V) COMPUTER READABLE FORM:
21
     (A) MEDIUM TYPE: 3.5 inch diskette
22
     (B) COMPUTER: IBM compatible
     (C) OPERATING SYSTEM: Windows 3.1/DOS 5.0
23
24
     (D) SOFTWARE: Microsoft Word for Windows, vers. 2.0
25
26
     (vi) CURRENT APPLICATION DATA:
27
     (A) APPLICATION NUMBER:
28
     (B) FILING DATE:
29
     (C) CLASSIFICATION:
30
31
     (vii) PRIOR APPLICATION DATA:
     (A) APPLICATION NUMBER: 08/689,587
32
33
     (B) FILING DATE: 12-AUG-96
34
35
     (vii) PRIOR APPLICATION DATA:
36
     (A) APPLICATION NUMBER: 08/659,453
     (B) FILING DATE: 06-JUN-96
37
38
39
     (viii) ATTORNEY/AGENT INFORMATION:
40
     (A) NAME: Stephen C. Macevicz
     (B) REGISTRATION NUMBER: 30,285
41
     (C) REFERENCE/DQCKET NUMBER: 808-lus
42
43
     (ix) TELECOMMUNICATION INFORMATION:
44
     (A) TELEPHONE: (510) 670-9365
45
     (B) TELEFAX: (510)670-9302
```

### RAW SEQUENCE LISTING PATENT APPLICATION US/08/862,610

DATE: 07/30/97 TIME: 13:59:51

INPUT SET: S19282.raw

```
47
48
49
     (2) INFORMATION FOR SEQ ID NO: 1:
50
51
     (i) SEQUENCE CHARACTERISTICS:
52
     (A) LENGTH: 28 nucleotides
53
     (B) TYPE: nucleic acid
54
     (C) STRANDEDNESS: double
55
     (D) TOPOLOGY: linear
56
57
     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:
58
59
    TGGATTCTAG AGAGAGAGA AGAGAGAG
                                                                   28
60
61
     (2) INFORMATION FOR SEQ ID NO: 2:
62
63
     (i) SEQUENCE CHARACTERISTICS:
64
65
     (A) LENGTH: 16 nucleotides
     (B) TYPE: nucleic acid
66
     (C) STRANDEDNESS: double
67
68
     (D) TOPOLOGY: linear
69
70
     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:
71
72
73
    NNGGATGNNN NNNNNN
                                                                   16
74
75
    (2) INFORMATION FOR SEQ ID NO: 3:
76
77
78
    (i) SEQUENCE CHARACTERISTICS:
79
    (A) LENGTH: 11 nucleotides
    (B) TYPE: nucleic acid
81
     (C) STRANDEDNESS: single
     (D) TOPOLOGY: linear
82
83
84
     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:
85
86
87
    NRRGATCYNN N
                                                                   11
88
89
90
    (2) INFORMATION FOR SEQ ID NO: 4:
91
92
     (i) SEQUENCE CHARACTERISTICS:
93
     (A) LENGTH: 20 nucleotides
94
     (B) TYPE: nucleic acid
95
     (C) STRANDEDNESS: double
96
    (D) TOPOLOGY: linear
97
98
     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:
99
```

## RAW SEQUENCE LISTING PATENT APPLICATION US/08/862,610

DATE: 07/30/97 TIME: 13:59:54

		INPUT SET: S19282.raw
100	AGTGGCTGGG CATCGGACCG	20
101		
102	(2) INFORMATION FOR SEQ ID NO: 5:	
103		
104	(i) SEQUENCE CHARACTERISTICS:	
105	(A) LENGTH: 20 nucleotides	
106	(B) TYPE: nucleic acid	
107	(C) STRANDEDNESS: double	
108	(D) TOPOLOGY: linear	
109		
110	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:	
111	CACAGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	0.0
112	GGGGCCCAGT CAGCGTCGAT	20
113		
114 115	(2) THEODY MICH BOD GEO TO NO. C.	
115	(2) INFORMATION FOR SEQ ID NO: 6:	
117	(i) GEOMENGE GUNDAGMEDIGMIGG.	
117	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 70 nucleotides	
119	(B) TYPE: nucleic acid	
120	(C) STRANDEDNESS: double	
121	(D) TOPOLOGY: linear	
122	(b) TotoLogi. Timeat	
123	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:	
124	(NI) DIGODNOL DEBONILITON, DIG ID NO. 0.	
125	AAAAGGAGGA GGCCTTGATA GAGAGGACCT GTTTAAACGT TTAAACGGAT	. 50
126	CCTCTTCCTC TTCCTCTTCC	70
127		. •
128		
129	(2) INFORMATION FOR SEQ ID NO: 7:	
130	(-,	
131	(i) SEQUENCE CHARACTERISTICS:	
132	(A) LENGTH: 34 nucleotides	
133	(B) TYPE: nucleic acid	
134	(C) STRANDEDNESS: single	
135	(D) TOPOLOGY: linear	
136		
137	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:	
138		
139	CTAAACCATT GGTATGGGCC AGTGAATTGT AATA	34
140		
141		
142	(2) INFORMATION FOR SEQ ID NO: 8:	
143		
144	(i) SEQUENCE CHARACTERISTICS:	
145	(A) LENGTH: 55 nucleotides	
146	(B) TYPE: nucleic acid	•
147	(C) STRANDEDNESS: single	
148	(D) TOPOLOGY: linear	G .
149		
150	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:	1
151	44444444444444444444444444444444444444	4.0
152	CGCGCAGCCC GCATCGTTTA TGCTACAGAC TGTCAGTGCA	40

# RAW SEQUENCE LISTING PATENT APPLICATION US/08/862,610

DATE: 07/30/97 TIME: 13:59:58

INPUT SET: S19282.raw

		INPUI SEI:
153	GCTCTCCGAT CCAAA	55
154 155	(2) INFORMATION FOR SEQ ID NO: 9:	
156	(2) INFORMATION FOR SEQ ID NO: 9:	
157	(i) SEQUENCE CHARACTERISTICS:	
158	(A) LENGTH: 16 nucleotides	
159	(B) TYPE: nucleic acid	
160	(C) STRANDEDNESS: double	
161	(D) TOPOLOGY: linear	
162	(b) Tot oboot: Timedi	
163	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 9:	
164	(,	
165	TCGATGGGCT AGATTT	16
166		
167		
168	(2) INFORMATION FOR SEQ ID NO: 10:	
169	——————————————————————————————————————	
170	(i) SEQUENCE CHARACTERISTICS:	
171	(A) LENGTH: 30 nucleotides	
	(B) TYPE: nucleic acid	
173	(C) STRANDEDNESS: double	
174	(D) TOPOLOGY: linear	
175		
176	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 10:	
177		
178	ANNNTACAGC TGCATCCCTT GGCGCTGAGG	30
179		
180	(2) INFORMATION FOR SEQ ID NO: 11:	
181		
182	(i) SEQUENCE CHARACTERISTICS:	
183	(A) LENGTH: 30 nucleotides	
184	(B) TYPE: nucleic acid	
185	(C) STRANDEDNESS: double	
186	(D) TOPOLOGY: linear	
187		
188	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 11:	
189		
190	NANNTACAGC TGCATCCCTG GGCCTGTAAG	30
191		
192		
193	(2) INFORMATION FOR SEQ ID NO: 12:	
194		
195	(i) SEQUENCE CHARACTERISTICS:	
196	(A) LENGTH: 30 nucleotides	
197	(B) TYPE: nucleic acid	
198	(C) STRANDEDNESS: double	
199	(D) TOPOLOGY: linear	
200	(	
201	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 12:	
202	CANANAN CA CO MOCAMOGORE CA COCCESSOR	2.2
203	CNNNTACAGC TGCATCCCTT GACGGGTCTC	30
204	/A\ TWEADYMEAN BAD GEO TE WA IA	
205	(2) INFORMATION FOR SEQ ID NO: 13:	

# RAW SEQUENCE LISTING PATENT APPLICATION US/08/862,610

DATE: 07/30/97 TIME: 14:00:01

INPUT SET: S19282.raw

		INPO	)T SET: S19282.raw
206	/ CENTENCE CULDICATED CATE		
207	(i) SEQUENCE CHARACTERISTICS:		
208 209	(A) LENGTH: 30 nucleotides		
209	(B) TYPE: nucleic acid (C) STRANDEDNESS: double		
210	• •		
211	(D) TOPOLOGY: linear		
212	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:	12.	
213	(XI) SEQUENCE DESCRIPTION: SEQ ID NO:	13:	
214	NCNNTACAGC TGCATCCCTG CCCGCACAGT		30
216	NCNNTACAGE IGCATECETG CEEGCACAGT		30
217	(2) INFORMATION FOR SEQ ID NO: 14:		
218	(2) Intolumiton ton bug ib no. 14.		
219	(i) SEQUENCE CHARACTERISTICS:		
220	(A) LENGTH: 30 nucleotides		
221	(B) TYPE: nucleic acid		
222	(C) STRANDEDNESS: double		
223	(D) TOPOLOGY: linear		
224	(-,		
225	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:	14:	
226	(, <u>2</u>		
227	GNNNTACAGC TGCATCCCTT CGCCTCGGAC		30
228			
229	(2) INFORMATION FOR SEQ ID NO: 15:		
230	· ·		
231	(i) SEQUENCE CHARACTERISTICS:		
232	(A) LENGTH: 30 nucleotides		
233	(B) TYPE: nucleic acid		
234	(C) STRANDEDNESS: double		
235	(D) TOPOLOGY: linear		
236			
237	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:	15:	
238			
239	NGNNTACAGC TGCATCCCTG ATCCGCTAGC		30
240			
241			
242	(2) INFORMATION FOR SEQ ID NO: 16:		
243			
244	(i) SEQUENCE CHARACTERISTICS:		•
245	(A) LENGTH: 30 nucleotides		
246	(B) TYPE: nucleic acid		
247	(C) STRANDEDNESS: double		
248	(D) TOPOLOGY: linear		
249			
250	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:	16:	
251			
<b>€</b> 252	TNNNTACAGC TGCATCCCTT CCGAACCCGC		30
253	/0\ TWEODY/MION DOD CTO TO TO		
254	(2) INFORMATION FOR SEQ ID NO: 17:		
255	/ L GROUPIAR GULDIGERRA		
256	(i) SEQUENCE CHARACTERISTICS:		
257	(A) LENGTH: 30 nucleotides		
258	(B) TYPE: nucleic acid		

## RAW SEQUENCE LISTING PATENT APPLICATION US/08/862,610

DATE: 07/30/97 TIME: 14:00:05

#### INPUT SET: S19282.raw

#### \*\*\*\*\* PREVIOUSLY ERRORED SEQUENCES - EDITED \*\*\*\*\*

12	(2) INFORMATION FOR SEQ ID NO: 6:	
16		
17	(i) SEQUENCE CHARACTERISTICS:	
18	(A) LENGTH: 70 nucleotides	
19	(B) TYPE: nucleic acid	
20	(C) STRANDEDNESS: double	
21	(D) TOPOLOGY: linear	
22		
23	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:	
24		
25	AAAAGGAGGA GGCCTTGATA GAGAGGACCT GTTTAAACGT TTAAACGGAT	50
26	CCTCTTCCTC TTCCTCTTCC	70
27		
28		

### **SEQUENCE VERIFICATION REPORT** PATENT APPLICATION *US/08/862,610*

DATE: 07/30/97 TIME: 14:00:06

INPUT SET: S19282.raw

Line

Error

Original Text





#### RAW SEQUENCE LISTING PATENT APPLICATION US/08/862,610

DATE: 07/30/97 TIME: 10:31:16

INPUT SET: S19282.raw

This Raw Listing contains the General **Information Section and those Sequences** containing ERRORS.

```
ices

Corrected Diskette Needed
                                       SEQUENCE LISTING
1
 2
 3
    (1)
            General Information:
    (i) APPLICANT: Glenn Albrecht, Sydney Brenner, David H. Lloyd
 5
 6
    (ii) TITLE OF INVENTION: Massively Parallel Signature Sequencing by Ligation of En
 7
 8
 9
    (iii) NUMBER OF SEQUENCES:
10
    (iv) CORRESPONDENCE ADDRESS:
11
    (A) ADDRESSEE: Stephen C. Macevicz, Lynx Therapeutics, Inc.
12
    (B) STREET: 3832 Bay Center Place
13
14
    (C) CITY: Hayward
15
    (D) STATE: California
16
    (E) COUNTRY: USA
17
    (F) ZIP: 94545
18
19
    (v) COMPUTER READABLE FORM:
    (A) MEDIUM TYPE: 3.5 inch diskette
20
21
    (B) COMPUTER: IBM compatible
    (C) OPERATING SYSTEM: Windows 3.1/DOS 5.0
22
    (D) SOFTWARE: Microsoft Word for Windows, vers. 2.0
23
24
25
    (vi) CURRENT APPLICATION DATA:
26
    (A) APPLICATION NUMBER:
27
    (B) FILING DATE:
28
    (C) CLASSIFICATION:
29
    (vii) PRIOR APPLICATION DATA:
30
    (A) APPLICATION NUMBER: 08/689,587
31
32
    (B) FILING DATE: 12-AUG-96
33
    (vii) PRIOR APPLICATION DATA:
35
    (A) APPLICATION NUMBER: 08/659,453
36
    (B) FILING DATE: 06-JUN-96
37
38
     (viii) ATTORNEY/AGENT INFORMATION:
39
     (A) NAME ➤ Stephen C. Macevicz
40
     (B) REGISTRATION NUMBER: 30,285
     (C) AREFERENCE/DOCKET NUMBER: 808-lus
41
42
43
     (ix) TELECOMMUNICATION INFORMATION:
     (A) TELEPHONE: (510) 670-9365
44
```

(B) TELEFAX: (510)670-9302

45



DATE: 07/30/97 TIME: 10:31:18

INPUT SET: S19282.raw

46 47

#### ERRORED SEQUENCES FOLLOW:

	114	(2) INFORMATION FOR SEQ ID NO: 6:	
	115		
	116	(i) SEQUENCE CHARACTERISTICS:	
>	117	(A) LENGTH: (20) nucleotides To show	
	118	(B) TYPE: nucleic acid	•
	119	(C) STRANDEDNESS: double	
	120	(D) TOPOLOGY: linear	
	121		
	122	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:	insert had return
	123		L'Mort Comme
	124	AAAAGGAGGA GGCCTTGATA GAGAGGACCT GTTTAAACGT TTAAACGGAT	50 CCTCTTCCTC TTCCTCTTC
	125		
	126		



PAGE: 1 SEQUENCE VERIFICATION REPORT PATENT APPLICATION US/08/862,610

DATE: 07/30/97 TIME: 10:31:19

INPUT SET: S19282.raw

Line

Error

Original Text

117

Entered (20) and Calc. Seq. Length (0) differ

(A) LENGTH: 20 nucleotides